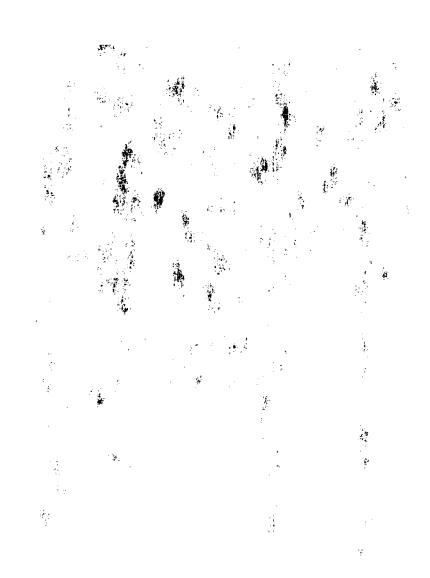


Monthly Oversight Report 53 ACS NPL Site Griffith, Indiana May 7, 2005 - June 3, 2005





101 N. Wacker Drive Suite 1100

Chicago, Illinois 60606-7302

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USEPA/RAC VII American Chemical Services RAO (057-ROBF-05J7)

BVSPC Project 46526 BVSPC File C.3 June 14, 2005

Black & Veatch Special Projects Corp.

Mr. Kevin Adler U.S. Environmental Protection Agency 77 W. Jackson Boulevard (SR-6J) Chicago, Illinois 60604-3590

Subject:

Monthly Oversight Summary Report

No. 53 for May 2005

Dear Mr. Adler:

Enclosed is the Monthly Oversight Summary Report No. 53 for May 2005 for the American Chemical Services Superfund Site in Griffith, Indiana.

If you have any questions, please call (312-683-7856) or email (campbelllm@bv.com).

Sincerely,

BLACK & VEATCH Special Projects Corp.

Larry M. Campbell, P.E.

Site Manager

Enclosure

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Monthly Oversight Summary Report No. 53 ACS Superfund Site WA57, 46526.238

Reporting Period: Month of May (May 7 - June 3, 2005)

BVSPC O/S Dates: May 10 & 20 and June 1 & 3, 2005 (Mr. Campbell)

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	3	Respondent's General Contractor
Indiana Department of Environmental Management	1	State Regulatory Agency
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
PSA Environmental	1	Geoprobe Contractor
Austgen	1	General Contractor
Microbac	1	GWTP Sampling Contractor

Construction Activities

Major Activities:

- Montgomery Watson Harza continued operating the groundwater treatment plant, the insitu soil vapor extraction systems, and the air sparge systems.
- Montgomery Watson Harza and PSA Environmental conducted the post-application sampling following the second full-scale round of chemical oxidation injections of modified Fenton's reagent in the South Area plume.
- Montgomery Watson Harza conducted the 24-hour indoor air sampling in the basement of the residence at 1002 Reder Road.
- Microbac (formerly Simalabs) collected samples from the groundwater treatment plant for routine process monitoring.
- Montgomery Watson Harza held the monthly operation status meetings on June 3.

Activities Performed:

Montgomery Watson Harza (MWH) reported (June 3) that the groundwater treatment plant (GWTP) was operational 97% of the time (30 of the 31 days) in May, processing about 791,000 gallons of groundwater at average rates of 25 to 40 gpm. MWH reported that water was being pumped to the GWTP from all trench and well sources during May.

MWH reported that the GWTP did not operate on May 9 when the granular activated carbon (GAC) was replaced. The GWTP operated in recirculation mode for 2 days until the pH stabilized; thereafter, normal discharge to the wetlands was resumed. Microbac (formerly Simalabs) collected samples from the GWTP for routine process monitoring.

MWH reported that Fliteway was onsite on May 19 to install a larger fan to ventilate the noise-suppression housing on blower ME102; however, the new fan was the wrong size and was not installed. Fliteway will obtain the correct fan and install it at a later date. MWH also reported that a seal on blower ME102 failed and that blower ME103 is now supplying air to the aeration tank. A replacement seal has been ordered for ME102.

MWH continued to operate the On-Site Containment Area (ONCA) Still Bottoms Pond Area (SBPA) and Off-Site Containment Area (OFCA) in-situ soil vapor extraction (ISVE) systems and the OFCA and SBPA air sparge systems.

MWH reported that thermox 1 only operated for 3 of the 31 days in May because of mechanical problems with the main gas regulator (repaired), spray nozzles (cleaned), and recirculation pump motor (ordered replacement). Thermox 1 processed 1,000 cfm of vapors from the ONCA SBPA ISVE system, collecting vapors from 23 (of 46) ISVE wells. Because of the limited operation, no performance samples were collected from thermox 1 during May.

MWH reported that it inspected the new coating on the interior of the thermox 1 scrubber while the unit was shut down and noted some deterioration of the coating near the influent pipe. MWH reported that the deterioration did not affect the functionality of the unit, but it will continue to monitor the condition of the coating.

MWH also reported that thermox 2 processed 2,000 cfm of vapors from the OFCA ISVE system, collecting vapors from 40 (increased from 28 in April) of the 42 OFCA ISVE wells and aeration tank T102. Thermox 2 was operational 25 out of 31 days in May (81% of the time); it was down for 6 days to replace fouled packing material in the scrubber. MWH plans to clean the fouled packing materials and store it for future use.

MWH reported that operation of the GWTP continued while thermox 1 and 2 were out of service by routing the vapors from aeration tank T102 through the catalytic oxidizer.

Following the Global inspection of thermox 2 during the last reporting period, MWH reported that it had satisfactorily resumed operation of both OFCA blowers without causing excessive temperatures in the heat exchanger for thermox 2. MWH also reported that it had increased the operating temperature of thermox 2 from 1450 °F to 1500 °F to compensate for the five damaged tubes in the heat exchanger.

MWH reported that it pumped 36.6 and 48 gallons of product from five ISVE wells in the SBPA on May 19 and June 2, respectively. The product was transferred to the oil holding tank T6 in the GWTP. MWH reported that it attempted to pump product from wells SVE61 and SVE65, but found the product to be

highly viscous and non-pumpable. MWH will evaluate alternate methods to remove the viscous product from these wells.

MWH reported that it inspected all 21 SBPA dual-phase extraction (DPE) well pumps following the failure of the check valve on SVE46 in the previous reporting period. MWH reported that 14 of the DPE well pumps were operational, but that reduced functionality was observed in the remaining seven. These non-functioning pumps were removed from the wells for repair or replacement and are currently stored in the sludge roll-off box in the GWTP. MWH reported that the new or repaired pumps will be reinstalled with secondary check valves at all DPE well locations. MWH also reported revising the control logic such that DPE well pumps will shut off if adequate flow is not detected in the DPE well headers.

MWH reported that ACS had not reported a recurrence of odors in its break room on the SBPA.

MWH conducted the post-application sampling event following the second full-scale round of In-Situ Chemical Oxidation (ISCO) injections of modified Fenton's reagent in the off-site South Area smear zone plume near the intersection of Colfax Avenue and Reder Road. On May 31, MWH sampled groundwater from the existing temporary wells in the application area. PSA Environmental mobilized to the site on June 1 and advanced geoprobe holes to collect soil and groundwater samples from 10 locations in the application area. Post-application sampling was completed on June 3 and PSA demobilized from the site.

MWH conducted indoor air sampling at the residence at 1002 Reder Road on June 2-3. Two summa canisters were installed in the basement of the residence; a third cannister was placed outside and upwind of the house. The air samples were collected for a 24-hour period and shipped to the laboratory for analysis.

MWH conducted the May operation & maintenance (O&M) status meeting at the site on June 3. BVSPC attended this meeting.

Because of the lack of field activity this month, no weekly reports are attached. Weekly reports will be prepared in the future if there are sufficient field activities to warrant such reporting. However, correspondence, log book notes, and photographs of the daily activities are attached. BVSPC conducted oversight of the field activities on May 10 and 20 and June 1 and 3.

Topics of Concern: None

Concern Resolution: None

Upcoming Activities:

- MWH to continue operating the GWTP and the OFCA and ONCA SBPA ISVE and air sparge systems.
- MWH to monitor odors in the ACS break room.
- Global Technologies to provide its report regarding the inspection of thermox 2.
- MWH to conduct the Phase 2 lower aquifer investigation beginning June 20.
- Next O&M meeting will occur at MWH's Chicago office at 10 AM on July 1.

Third round of ISCO injections ter	ntatively scheduled for late June / early July.
Signature: <u>Larry Campbell</u>	Date: June 14, 2005
	t:\projects\acs-raos\osr\2005\05\MO53.wpa

SITE STATUS MEETING MINUTES FOR JUNE 3, 2005 MEETING AMERICAN CHEMICAL SERVICE, NPL SITE GRIFFITH, INDIANA

MRETING DATE: Friday, June 3, 2005

MEETING TIME: 10:00

MEETING LOCATION: MWH Chicago Office

ATTENDEES: Larry Campbell – Black & Veatch

Prabhakar Kasarabada – IDEM Todd Lewis – MWH (by phone) Peter Vagt – MWH (by phone) Chris Daly – MWH (by phone)

Lee Orosz – MWH Chad Smith – MWH

TOPICS:

SITE STATUS

Health and Safety Summary

There have been no health and safety issues since the last meeting on May 6th. Todd Levis announced that the ACS Team has received the Ace Award for safety. This is a prelitigious, internal MWH award awarded to the company's safest sites each year

Chemical Oxidation Treatment Status

MV H is currently conducting the post-application sampling event for the second full-scale chemical oxidation treatment. The sampling event began on May 31, 2005, and will be completed on June 3, 2005. Soil and groundwater samples are being collected from 12 locations throughout the treatment area and being laboratory analyzed for volltile organic compounds (VOCs), diesel and gasoline range organics (DRO and GRD), total organic carbon (TOC), and pH. The sampling depth intervals and parameters are consistent with previous events to allow for comparison of results. There have been no lealth and safety issues related to the post-application sampling event.

Groundwater Treatment Plant (GWTP) Status

Treatment rate through the GWTP varied between 25-40 gallons per minute (gpm) during May. The approximate total volume of water treated was 791,000 gallons. A carbon changeout was performed on May 9. Blower ME-102 (supply to the aeration tank) had a fail are in a seal. A new seal has been ordered and will be installed early next week. In the meantime, the other blower (ME-103) is supplying the air to the aeration tank.

Site Meeting Minutes

June 3, 2005 Meeting

AC\$ NPL Site

Off Site Area/SBPA ISVE Systems

The SBPA ISVE System was operated only intermittently during May due to various maintenance actions performed on Thermal Oxidizer 1 (TOX1). TOX1 was brought offline to service the main gas regulator and to unplug the spray nozzles. During an inspection of the unit, the interior scrubber coating was noted to be deteriorating near the scrubber influent pipe. The deterioration does not affect operation of the scrubber but MV/H will continue the monitor this situation. On May 23, the recirculation pump motor fail d. A new pump was ordered and should be during the week of June 13th.

The Off-Site ISVE System was operational 81 percent of the time during May. It was shut down for six days for maintenance activities associated with Thermal Oxidizer 2 (TC X2). The system was shut down during the Global inspection of the unit (performed from May 3 to May 5). On May 25, TOX1 was shut down due to debris in the recirculation pump. Similar debris was found in the scrubber packing. The packing was removed and will be cleaned prior to reinstallation. A new pump will be installed. The existing pump is still functional allowing TOX2 to operate, however, its capacity has apparently been reduced.

Product removal activities have been performed weekly at five ISVE well locations in the SBI A. During the June 2 removal activity, product was also removed from SVE-61. This well is a dual-phase well that has had limited liquid removal using the original pneumatic pump. The liquid in SVE-61 (and similarly SVE-65) is a highly viscous fluid. MVH will evaluate alternatives for removal of product from these locations and discuss the indings at a future meeting.

After the check valve failed in SVE-46, MWH evaluated the operation of the other DPE pumps. Fourteen of the 21 pumps are operational. Some reduced functionality was noted in the other seven and so they have been removed for servicing or replacement. The pumps will be reinstalled along with installation of secondary check valves at all DPE locations. Changes to the logic program have also been made to prevent similar occurrences in the future. The logic was revised so that pumps will be shut down in the event adequate flow is not observed through the DPE well headers.

Interaction with Community

MWH is coordinating a meeting with Mr. Howard Anderson to demonstrate the effectiveness of the noise shield housing installed over Blower ME-102. MWH will notily the project team when a meeting date and time have been scheduled.

Indepr air sampling was conducted at the residence at 1002 Reder Road on June 2-3. Three summa canisters were utilized during the 24-hour test. Two canisters were placed in the basement (the second canister was used as a backup in case there were problems with the first); the third placed outside and upwind of the home. Results are expected from the laboratory in about two weeks.

Lower Aquifer Investigation

Phase 2 of the Lower Aquifer Investigation is scheduled to begin on June 20. In advance of his event, MWH is coordinating access to railroad property. Clearing and grubbing will be performed prior to the event.

LOOK AHEAD

Field Events

• Lower Aquifer Event, Drilling - mobilization on June 20

Remorts

- Monthly Status Report June 9
- Quarterly Report, 3rd Quarter 2004 Final Approval received June 1
- Quarterly Report, 4th Quarter 2004 Agency comments received June 1
- HASP Update June
- March 2005 Groundwater Monitoring Summary Report June

Health & Safety Look Ahead

- During this time of year, bees and mosquitoes are a nuisance at the site.
- Discussed safety issues associated with the Lower Aquifer Investigation.

Fut re Meetings

• Monthly Site Meeting - Friday, July 1, 2005, 10 a.m. at MWH Chicago

CVD

J:209 0602 ACS PM Meetings Meeting Minutes 2005 ACS Meeting Minutes 06-03-05 pjv cas.doc

SITE MEETING AGENDA JUNE 3, 2005 AMERICAN CHEMICAL SERVICE, NPL SITE GRIFFITH, INDIANA

MEETING DATE: Thursday, June 3, 2005

MEETING TIME: 10:00

MEETING LOCATION: MWH Chicago Office

175 West Jackson Blvd., Suite 1900

TOPICS:

SITE STATUS

- · Health and Safety Summary
- GWTP Status
- ISVE Systems Status (incl. Thermal Oxidizers)
- Interaction with ACS Facility or Community

CURRENT ISSUES

- Lower Aquifer Groundwater Investigation
- SBPA DPE Pumps
- SBPA ISVE System Upgrades

MISCELLANEOUS

• Open

LOOK AHEAD

Field Events

- Post-Application Sampling for Second Full-scale Chemical Oxidation Treatment
- Soil Vapor Intrusion at 1002 Reder Road

Reports

- Monthly Status Report June 9
- Quarterly Report, 3rd Quarter 2004 Final Approval received June 1
- Quarterly Report, 4th Quarter 2004 Agency comments received June 1
- ISVE Systems O&M Manual Further comments received; MWH will respond via
- HASP Update to be submitted in June 2005
- March 2005 Groundwater Monitoring Summary Report June 2005

Health & Safety Look Ahead

Future Meetings

CAD/CAS

J:\209\0602 ACS PM\Meetings\Meeting Agendas 2005\ACS Meeting Agenda 06-03-05.doc

Site Meeting Agenda

June 3, 2005 Meeting

Remedial Progress Report

May-05

Report Date: 6/2/2005

GWTP & Dewatering

The GWTP was operational for 30 days out of 31 days in May (97%). Total Gallons treated = 791,016 gallons since 4/29/05 (28 days).

	Ave. Flow	Rate (gpm)
	4/15/05	Varies 25-40
	4/22/05	Varies 25-40
	4/29/05	Varies 25-40
Г	5/13/05	Varies 25-40
	5/20/05	Varies 25-40
	5/27/05	Varies 25-40

Tables, Graphs & Figures
Table - Effluent Summary
Graphs - Off-Site Dewatering
Graphs - SBPA Dewatering

*Red Number

SBPA ISVE System

System was operational 3 out of 31 days in May (10%). System monitoring was not conducted in May due to system shutdown. The next monitoring event is scheduled for 6/8/05.

Tables, Graphs & Figures
Table - Sampling Data
Graph - Mass Extraction
Graph - Total VOC removal

Product Ren	noval 5/19/05
SVE-52	11.4 gal
SVE-53	6.4 gal
SVE-62	7.8 gal
SVE-72	5 gal
SVE-88	6 gal

Active Wells (23 of 46 total				
SVE-43	SVE-67			
SVE-45	SVE-68			
SVE-47	SVE-70			
SVE-48	SVE-71			
SVE-55	SVE-74			
SVE-56	SVE-75			
SVE-57	SVE-76			
SVE-58	SVE-83			
SVE-59	SVE-85			
SVE-60	SVE-86			
SVE-63	SVE-87			
SVE-64				

Off-Site ISVE System

System was operational 25 out of 31 days in May (81%). System monitoring was conducted on 5/20/05 The next monitoring event is scheduled for 6/8/05.

Tables, Graphs & Figures
Table - Sampling Data
Graph - Mass Extraction
Graph - Total VOC removal

Active Wells	(40 of 42 total)
SVE-01	SVE-22
SVE-02	SVE-23
SVE-03	SVE-24
SVE-04	SVE-25
SVE-05	SVE-26
SVE-06	SVE-27
SVE-07	SVE-28
SVE-08	SVE-29
SVE-09	SVE-30
SVE-10	SVE-31
SVE-11	SVE-32
SVE-12	SVE-33
SVE-13	SVE-34
SVE-15	SVE-36
SVE-16	SVE-37
SVE-17	SVE-38
SVE-18	SVE-39
SVE-19	SVE-40
SVE-20	SVE-41
SVE-21	SVE-42

Comments

Data presented here is for informational purposes only. Not all data presented in this report has been validated.

Table Summary of Effluent Analytical Results Groundwater Treatment System American Chemical Service NPL Site Griffith, Indiana

Event Date	Month 93 2/15/2005	Month 93 3/15/2005	Month 94 4/11/2005	Effluent Limits	Lab Reporting Limits
pH	7.06	7.43 /J	7.25	6-9	none
TSS	NS	NS	1.00	30	10
BOD	NS	NS	< 2	30	2
Arsenic	NS	NS	11.4 /UB	50	3.4
Beryllium	NS	NS	2.7 B/UB	NE	0.2
Cadmium	NS	NS	2.6 B/B	4.1	0.3
Manganese	NS	NS	19.3 /B	NE	10
Mercury	NS	NS	ND	0.02 (w/DL = 0.64)	0.64
Selenium	NS	NS	ND	8.2	4.3
Thallium	NS	NS	3.5 B/UB	NE	5.7
Zinc	NS	NS	14.1 B/UB	411	1.2
Benzene	0.14 J	ND	ND /UJ	5	0.5
Acetone	2.4 J	2.2 JB/ 10 UBJ	1.9 J/J	6,800	3
2-Butanone	ND	ND	1.4 J/J	210	3
Chloromethane	ND	ND	ND /UJ	NE	0.5
1,4-Dichlorobenzene	ND	ND	ND/UJ	NE	0.5
1,1-Dichloroethane	ND	ND	ND /UJ	NE	0.5
cis-1,2-Dichloroethene	0.57	ND	0.62 /J	70	0.5
Ethylbenzene	0.14 J	ND	ND /UJ	34	0.5
Methylene chloride	1.0	1.2 /J	2.3 /J	5	0.6
Tetrachloroethene	0.16 J	ND	0.19 J/J	5	0.5
Trichloroethene	0.12 JB	ND	ND/UJ	5	0.5
Vinyl chloride	0.22 J	0.36 J/J	0.16 J/J	2	0.5
4-Methyl-2-pentanone	ND	ND	ND/UJ	15	_ 3
bis (2-Chloroethyl) ether	NS	NS	ND	9.6	9.6
bis(2-Ethylhexyl) - phthalate	NS	NS	ND	6	6
4 - Methylphenol	NS	NS	ND	34	10
Isophorone	NS	NS	ND	50	10
Pentachlorophenol	NS	NS	ND	1	1
PCB/Aroclor-1016	NS	NS	ND	0.00056 (w/DL = 0.1 to 0.9)	0.5
PCB/Aroclor-1221	NS	NS	ND	0.00056 (w/DL = 0.1 to 0.9)	0.92*
PCB/Aroclor-1232	NS	NS	ND	0.00056 (w/DL = 0.1 to 0.9)	0.5
PCB/Aroclor-1242	NS	NS	ND	0.00056 (w/DL = 0.1 to 0.9)	0.5
PCB/Aroclor-1248	NS	NS	ND	0.00056 (w/DL = 0.1 to 0.9)	0.5
PCB/Aroclor-1254	NS	NS	ND	0.00056 (w/DL = 0.1 to 0.9)	0.5
PCB/Aroclor-1260	NS	NS	ND	0.00056 (w/DL = 0.1 to 0.9)	0.5

Notes:

Bolded result indicates a exceedence of the discharge limit pH data is expressed in S.U.

Metals, VOC, SVOC and PCB data is expressed in ug/L

ND = Not detected

NS = This analyte was not sampled or analyzed for

NE = No effluent limit established.

DL = Detection limit

DRAFT VERSION
For Informational Purposes Only

Not all data presented here has been validated Notes and suffix definitions have not been updated.

Approved SW-846 method is incapable of achieving effluent limit.

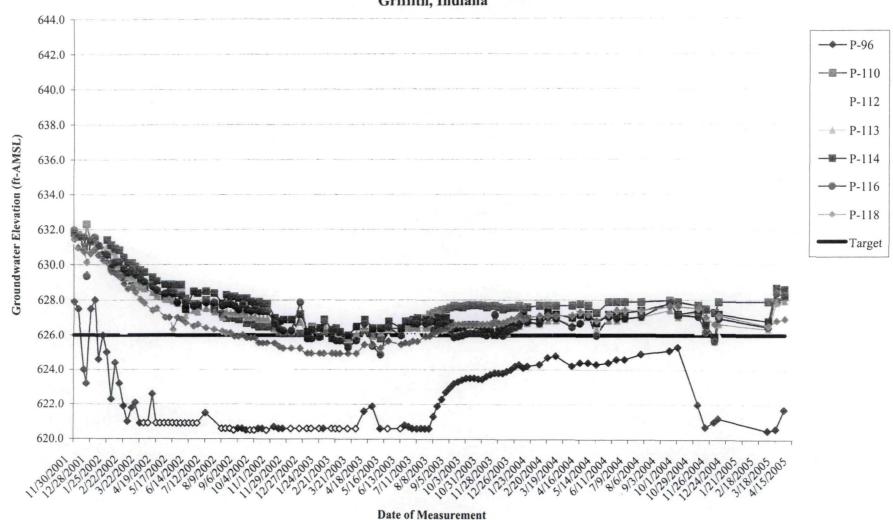
Suffix Definitions:

- _/ = Data qualifier added by laboratory
- /_ = Data qualifier added by data validator
- J = Result is estimated
- B = Compound is also detected in the blank
- UJ = Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an
- JB = Result is detected below the reporting limit and is an estimated concentration.

The compound is also detected in the method blank resulting in a potential high bias

- UB = Compound or analyte is not detected at or above the indicated concentration due to blank contamination
- UBJ = Analyte is not detected at or above the indicated concentration due to blank contamination, however the calibration was out of range. Therefore the concentration is estimated.

Figure 3
Off-Site Water Level Status - Piezometers
Groundwater Monitoring
ACS NPL Site
Griffith, Indiana



Note:

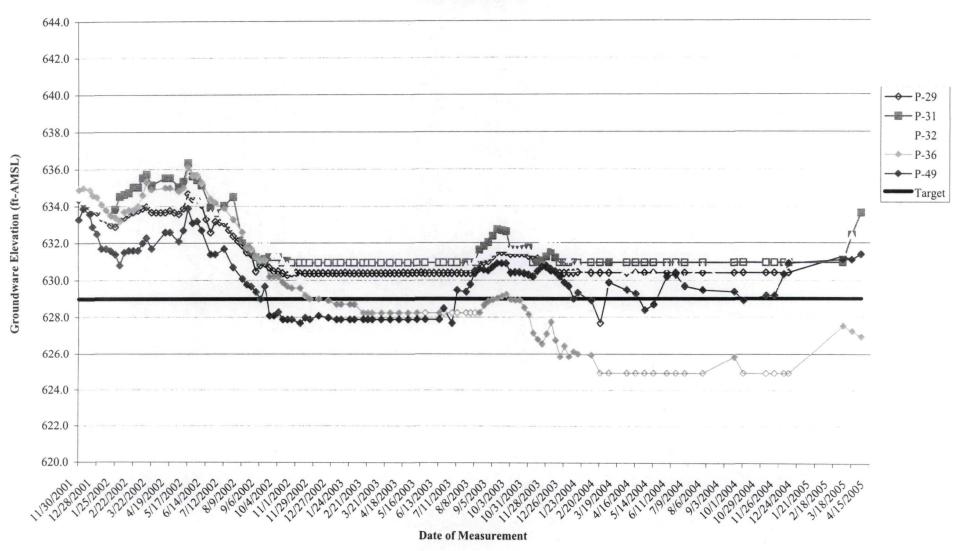
Hollow points represent dry piezometers

(data used for graphing purposes only). The bottom elevation of the piezometers may vary due to silting

ALC/imf

J:/209/0603/0301/BWES and Dewatering Data/BWES Performance.2005.xls/Off-Site Chart

Figure 1
SBPA Water Level Status
ACS NPL Site
Griffith, Indiana



Note:

Hollow points represent dry piezometers (data used for graphing purposes only).

The bottom elevation of the piezometers may vary due to silting of the well or removal of silt.

ALC/jmf/CAD

J:/209/0603/0301/BWES Data/BWES Performance.2005.xls/On-S

Table 10 SBPA and Off-Site ISVE System Results for Method TO-14 (VOCs) - April 2005 American Chemical Service Griffith, Indiana

	T	4/7/2005			
Compounds	Units	SBPA ISVE		Off-Site ISVE	
1,1,1-Trichloroethane	ppbv	46,000		35,000	
1,1,2,2-Tetrachloroethane	ppbv	ND	U	ND	U
1,1,2-Trichloroethane	ppbv	ND	U	ND	U
1,1-Dichloroethane	ppbv	3,000		3,600	
1,1-Dichloroethene	ppbv	350		290	J/J
1,2-Dichloroethane	ppbv	280		1,100	
1,2-Dichloropropane	ppbv	240		230	J/J
2-Butanone (Methyl Ethyl Ketone)	ppbv	540	J/J	12,000	
2-Hexanone	ppbv	ND	U	ND	U
4-Methyl-2-pentanone	ppbv	1,200		6,000	
Acetone	ppbv	890		14,000	
Benzene	ppbv	6,100		26,000	
Bromodichloromethane	ppbv	ND	U	ND	U
Bromoform	ppbv	ND	U	ND	U
Bromomethane	ppbv	ND	U	ND	U
Carbon Disulfide	ppbv	28.00	J/J	ND	U
Carbon Tetrachloride	ppbv	ND	U	ND	U
Chlorobenzene	ppbv	53	J/J	ND	U
Chloroethane	ppbv	450		ND	U
Chloroform	ppbv	8,000		2,000	
Chloromethane	ppbv	59	J/J	ND	U
cis-1,2-Dichloroethene	ppbv	14,000		2,100	
cis-1,3-Dichloropropene	ppbv	ND	U	ND	U
Dibromochloromethane	ppbv	ND	U	ND	U
Ethyl Benzene	ppbv	8,900		12,000	
m,p-Xylene	ppbv	34,000		49,000	
Methylene Chloride	ppbv	9,100		28,000	
o-Xylene	ppbv	14,000		17,000	
Styrene	ppbv	ND	U	870	
Tetrachloroethene	ppbv	18,000		21,000	
Toluene	ppbv	47,000		110,000	
trans-1,2-Dichloroethene	ppbv	ND	U	ND	U
trans-1,3-Dichloropropene	ppbv	ND	U	ND	U
Trichloroethene	ppbv	23,000		18,000	
Vinyl Chloride	ppbv	750		ND	U
Total	ppbv	235,940		358,190)
Total	lb/hr	4.20		6.78	

Notes:

_/ - Laboratory data qualifier

/_ - Data validation qualifier

NC - Not calculated

ND - Non-detect

ppbv - parts per billion volume

lb/hr - pounds per hour

3/17/05 VOCs in lb/hr calculated based on Offsite: 1550 scfm, 55 degrees Fahrenheit (3/9/05)

On-site: 1200 scfm, 40 degrees Fahrenheit (3/9/05)

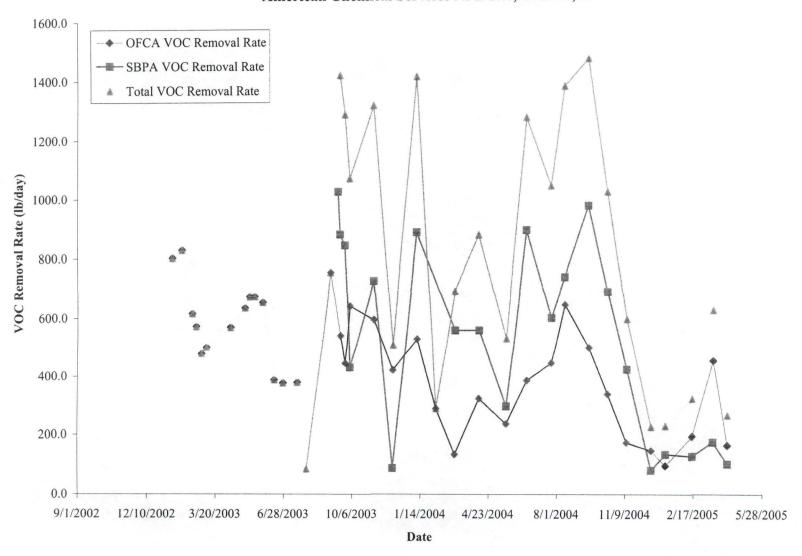
Table 10 SBPA and Off-Site ISVE System Results for Method TO-13 (SVOCs) - April 2005 American Chemical Service Griffith, Indian a

	Sampled 4/7/2005				
Compounds	Units	SBPA ISV		OFF-Site IS	SVE
1,2,4-Trichlorobenzene	μg	ND	U	11	
1,2-Dichlorobenzene	μg	21		35	
1,3-Dichlorobenzene	μg	ND	U	ND	_ U _
1,4-Dichlorobenzene	μg	ND	U	ND	U_
2,4,5-Trichlorophenol	μg	ND	U	ND	U
2,4,6-Trichlorophenol	μg	ND	U	ND	U
2,4-Dichlorophenol	μд	ND	U	ND	U
2,4-Dimethylphenol	μg	ND _	υ	ND	U
2,4-Dinitrophenol	μg	ND	U	ND	U
2,4-Dinitrotoluene	μg	ND	U	ND	U
2,6-Dinitrotoluene	μg	ND	υ	ND	U
2-Chloronaphthalene	μд	ND	Ū	ND	U
2-Chlorophenol	μg	ND	U	ND	U
2-Methylnaphthalene	μg	0.84	J/J	4 6	
2-Methylphenol (o-Cresol)	μg	ND	U	ND	Ü
2-Nitroaniline	μд	ND	U	ND	Ü
2-Nitrophenol	μg	ND	U	ND	Ü
3,3'-Dichlorobenzidine	μв	ND	U	ND	U
3-Nitroaniline	μg	ND	U	ND	U
4,6-Dinitro-2-methylphenol	μв	ND ND	U	ND	U
4-Bromophenyl-phenyl Ether	μg	ND	υ	ND	U
4-Chloro-3-methylphenol	μg	ND	U	ND	Ū
4-Chloroandine	μg	ND	Ü	ND	U
4-Chlorophenyl-phenyl Ether	μд	ND	U	ND	U
4-Methylphenol/3-Methylphenol		ND	U	22	J/J
4-Nitroaniline	μg	ND	U	ND	U
4-Nitrophenol	μg	ND	U	ND ND	U
Acenaphthene	μg	ND	U	ND -	U
Acenaphthylene	μg	ND	U	ND	U
Anthracene	μд	ND	U	ND ND	Ü
	μg	ND	U	ND ND	U
Benzo(a)anthracene	μg	ND	U	ND	U
Benzo(a)pyrene	μg	ND	U	ND	
Benzo(b)fluoranthene	μg	ND ND	U	ND ND	U
Benzo(g,h,i)perylene Benzo(k)fluoranthene	μg	ND ND	U	ND ND	U
	μg	·	U	ND ND	
bis(2-Chloroethoxy) Methane	μg	ND	U	ND ND	U
bis(2-Chloroethyl) Ether	μв	ND 0.42			U_
bis(2-Ethylhexyl)phthalate	μд	0.42	J/J	ND ND	U
Butylbenzylphthalate	μд	ND	U		U
Chrysene	μg	ND	U	ND ND	U
Dibenz(a,h)anthracene	μg	ND	U	ND	U
Dibenzofuran	μg	ND	U	ND	U
Diethylphthalate	μg	0 33	J/J	0 49	J/J
Dimethylphthalate	μg	ND	U	ND	U
di-n-Butylphthalate	μg	0.31	J/J	0.39	J/J
Di-n-Octylphthalate	μg	ND	U	ND_	U
Fluoranthene	μg	ND	U	ND	U
Fluorene	μg	ND	U	ND	U
Hexachlorobenzene	μg	ND	U	ND_	U
Hexachlorobutadiene	μg	ND	υ	2.3	<u> </u>
Hexachlorocyclopentadiene	μg	ND	U	0.33	J/J
Hexachloroethane	μg	ND	U	ND	U
Indeno(1,2,3-c,d)pyrene	μg	ND	U	ND	U
Isophorone	μд	0 34	J/J	20	<u></u>
Naphthalene	μg	2.4	<u> </u>	26	<u></u>
Nitrobenzene	μg	ND	U	ND	U
N-Nıtroso-di-n-propylamine	μg	ND	υ	ND	U
N-Nitrosodiphenylamine	μg	ND	U	ND	U
Pentachlorophenol	μg	ND	U	ND	U
Phenanthrene	μg	ND	U	ND	U
Phenol	μg	ND	U	ND	U
Pyrene	μg	ND	U	ND	U
Total	μg	6.7		92.41	

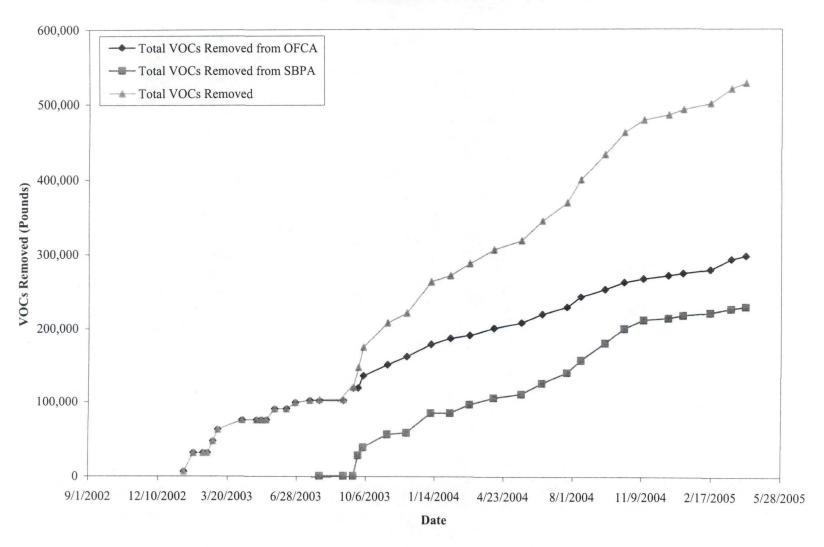
Notes:
_/ - Laboratory data qualifier
/_ - Data validation qualifier
µg - Microgram
NC - Not calculated

ND - Non-detect

VOC Removal Rate American Chemical Services NPL Site, Griffith, IN



Total VOCs Removed
American Chemical Services NPL Site, Griffith, IN



Im amplees - Themax units not pullited Couting in Scrubbers That condition of intiver of the mor I to more fully - must plans to budget ingresson and from Tank Ther Thorney & precessing Vepres chity representation opis. Met pulling Vapores from welly many 43 Mod smalege 3181 -Waler tomorrow. respect discharge of the chad A returns to normal, may 11 To C. 124/1652 Mode #11 Yesterday, Aunt running runing well. Mu spile in hee. built DOSOS hadming hum Tim letilland stustyen AMU (5010 2-4 2 6 1991 25 4 45 3 68 10 7.549 1-4405121 dest weem culm 680 F 1015 AFTINE ON 5,16 12000 Am well 151 ds be con 90 holl 01 41

20 May 05 1000 Anne onsite oversust, Colm, Con 55 F Personnel Onsike must Lee Orosa Tim Korkland Austren Larry Cernshall Broke 1005 Dis us hee - Mant Puning well @ 37gpy Allming from all sources - Thermex I down because A faulty natural gas regulator replacement on order : SBPA ISVE pet operating - last week, must increased from 14506 to 1500 F To compensato for 5 damage tules in barner, Also now opening both CFCA blowers CL Openhing at 2000 CFM Fliftuny onsite ye sterday to instill larger fan in ME 102 noix abote must Enlisue but had wrong size fam will votung Left Site for day for Champbery

June 05 Ann dist Clary Shipe breeze, warm SSE Porsun Oust mud Lor Crasz RSA Kann Doane Andy Wozesinsk. Cherry San, 16 Must Tim Kirkland Aug Iron Army Clark MuH Rich Marsistic BUS Proble por Cuschranda 1DEM Must Noelle Brigham 132500 Lamy Comprell disc in Char Smith, Sumplex (tow) from all Tomps. was yesterday of Taday many A Bas used geo prace to sample Soil & graculation at 4 10 cat 10 us to 1700 Man 4 Kok Sampling Can dies to 1002 Kelen Rd to Soundant In chair chir Sampling Adults were net home Si Sanglar delap & SIV tomberow 1734 App Sit for day M Campbell

3 Jun 05 0745 Armore onsite Overlust, Calm, deal Versonnel On Ste NWH Lee orosz Amy Clove Clied Smith Kenny Doane PSA LM Campbell BUSPC Austgen Tim Kirkland 6750 D/w Chad Smith Indoor are Amisters were set and yesterday 2 9 Am. Will Collect leter today - Mrs delivered Samples from Temp. wells arrived at lab at sathrerently 100 Temperature to not require Yesumpling. 0755 Loc Said they pumped 48 gol preduct from 3BPA DPE Wells yesterday Photo 75-01 Jacking South at 0800 Scrubber 1 W access habon open 0801 Philo 7502 looking SE at Interior of Serubber 1 m deflector Im Campbell

0802 Phylo 75-03 160km Swadraken 1 Sembler 01 823 Philo 75-04 laking Wat disassimble blower ME 162 BB17 Phope 7505 looking 5 at PSA DPT Rig at lovering 8 on 4 side 1 Caifer Ave 0818 Prove 75-04 looking 5 at forst Scil Sumpe from Norton 8 1848 Plake 75-07 larcing wat PSA back filling but o ker. Sun Bentenite 0853 Place 7508 lorking SW at backson aut down all Panisher for her Set 1 Come 0357 Pheto 75-09 Place Boing NE 9+ the Simma an stor is busement of hours at 1002 Reder Re. When notes one has not been present to escent sauge 990 PSA Moux 1 to ker-hous on 11 Sid of alfex Arc 1000 Censt Mtg See pg 20-23 1045 mfg com 11/5 must campa her St. 1 sangeling 11 De Phato 75-10 rekny 5 at MICH + PSA Cleaning up after complian Stuply

manshed

1000 Construction M/g Kersmust Lee oraz mut chad Smith must DEM Prabhakar Kasarabula Luny Campbell BUSPC Pete Vagt Matt Phone Chris Daly must Todd Lowis must " HAS - NO 19surg since last mbg, Various mainte tasies in GWTP \$ 150E Systems MWH ACS Site Project Wen Internal Muis ACE award for overall sate Ty. Cherry ox - Post appliation sampling Started Thes 5/31 wit well simpling PSA Enil Meter to site in West 6/1 to geoprate sample soil of Enl! Sampling Completed Fri 6/3. Sampled le locations No HAS 135 Lies With WOVE my near home celler me retraffic. indow Arr Quelly - Must attempte to andust undoor ar quelity Im Complees

Sampling 1 105 desact to 2 Role Rd but adel's work not home on Worl 611 a Colera Som for A to be word Suspelly until gam on Their 6/2. Parcar 2 Samma Remisters in basement & 1 outside, St of and upovind 1 horse . Porchar Canisay GA 3 Am on Fr. 6/3 - 24 44 ertakin. One of canistors in busement had not been turned on - 50 don't how a dupliate Signale from Interior Dance. Cansles will be duracy zot for VUCS a mothane. 5 havier have voscits in 2-3 was. Par lant GUT - aperated 97% in May pumping 971,000 Sul out 25 to 42 3pm, Replace 6Ac on may 9 - van stant in recirculation made for 2+ los into ply refund to normal 5BPA 1514 - The may 1 - found was comay problems an main an tegula de la le o) 1 Spran Maggler Im Campley

Recirculation pump mitor (ordered raplacement motor). Mouned interval of Servitor A found some deterioration of new Coating, No air Sampling done this month OFCA ISVE Thomax 2 operated most of Month CK - pulling Vapor from 40 142 OFCA ISVEWERS Pacifing mill was fould - So roplaced us new passing. Old packing to be cleaned for forture vouse. The vacirality pump was dumaged by forling motorial - it will be replaced , Blower ME102 15 not operating because 1 leaking Seal. ME 103 new open Long. Noise 1854e, - When ME 102 15 back in operation, Mult Will antact local neighbors to Bome to 6. to her regults 1) Noise suppression housing. 5BPA DPE pumps - MWH alocked all 21 DPE Well pumps In Cangles

Bellowing for lever of check valve last mank. Found 14 parages working Ok but 7 regarive repair Iropramined. be Pumps remain from wells + stored in since voll of box o Gar. When roins did repussed presups will and a zur chent vilve Also Changed programming to sixet down Gisken if msathront flow. Product remove In us it pumper 48 gul product from 5 58P1 wells Afferment to pump from 5 v= 61 8504 65, but product too Viscos to premp Will evaluate gilornotives to appeting this kectoral, SBM 1500 upgrade - PRP Comus. has approved concept, must to got prices & PRP approved Post applies him & inday gir Sampling Clearing for lower Agen to Invest (6/20) Hds - bees, wasys 1045 M/g sur 1130 hop site for alley Im Campbell

Roll 75, Photo #1

Did not develop



Proj. #: 46526

Roll: 75 Photo #1 Date: 06-03-05 Time: 0800

Photographer: Larry Campbell

Description: Photo facing south showing thermox 1 scrubber with the access hatch removed.



Site: American Chemical Service, Inc.

46526 Proj. #:

Photo #2 Roll: 75 Time: 0801 Date: 06-03-05

Photographer: Larry Campbell

Description: Photo facing southeast showing interior of

thermox 1 scrubber with deflector plate.





Proj. #: 46526

Roll: 75 Photo #3 Date: 06-03-05 Time: 0802

Photographer: Larry Campbell

Description: Photo facing southwest showing interior of

thermox 1 scrubber.

Site: American Chemical Service, Inc.

Proj. #: 46526

Roll: 75 Photo #4

Date: 06-03-05 Time: 0803

Photographer: Larry Campbell

Description: Photo facing west showing disassembled

blower ME102 because of leaking seal.





Proj. #: 46526

Roll: 75 Photo #5
Date: 06-03-05 Time: 0817

Photographer: Larry Campbell

Description: Photo facing south showing PSA

Environmental DPT rig at location 8 on east side of Colfax Avenue preparing to collect

post-application soil samples.

Site: American Chemical Service, Inc.

Proj. #: 46526

Roll: 75 Photo #6
Date: 06-03-05 Time: 0818
Photographer: Larry Campbell

Description: Photo facing south showing first soil sample

from location 8.





46526 Proj. #:

Photo #7 Roll: 75 Time: 0848 Date: 06-03-05

Photographer: Larry Campbell

Description: Photo facing west showing PSA backfilling

hole at location 8 with bentonite.

Site: American Chemical Service, Inc.

Proj. #: 46526

Roll: 75 Photo #8 Date: 06-03-05 Time: 0853 Photographer: Larry Campbell

Description: Photo facing southwest showing

background outdoor summa canister located southeast of house at 1002 Reder

Road.





Proj. #: 46526 Roll: 75 Photo #9

Date: 06-03-05 Time: 0857 Photographer: Larry Campbell

Description: Photo facing northeast showing two summa

canisters in basement of house at 1002

Reder Road.

Site: American Chemical Service, Inc.

Proj. #: 46526

Roll: 75 Photo #10 Date: 06-03-05 Time: 1120 Photographer: Larry Campbell

Description: Photo facing south showing MWH and PSA

cleaning up after completion of post-

application sampling.